

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/714,887
Source: IFWO
Date Processed by STIC: 09/29/2005

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 09/29/2005

PATENT APPLICATION: US/10/714,887

TIME: 10:03:53

Input Set : D:\MBI0058CIP.ST25.txt

Output Set: N:\CRF4\09292005\J714887.raw

3 <110> APPLICANT: Mendel Biotechnology, Inc.
 4 HEARD, Jacqueline
 5 RIECHMANN, Jose Luis
 6 CREELMAN, Robert
 7 RATCLIFFE, Oliver
 8 CANALES, Roger
 9 REPETTI, Peter
 10 KUMIMOTO, Roderick W
 11 GUTTERSON, Neal
 12 REUBER, T. Lynne
 13 PINEDA, Omaira
 14 SHERMAN, Bradley K
 16 <120> TITLE OF INVENTION: PLANT TRANSCRIPTIONAL REGULATORS OF DROUGHT STRESS
 18 <130> FILE REFERENCE: MBI0058-CIP
 C--> 20 <140> CURRENT APPLICATION NUMBER: US/10/714,887
 C--> 20 <141> CURRENT FILING DATE: 2003-11-13
 20 <150> PRIOR APPLICATION NUMBER: 10/412,699
 21 <151> PRIOR FILING DATE: 2003-04-10
 23 <150> PRIOR APPLICATION NUMBER: 09/506,720
 24 <151> PRIOR FILING DATE: 2000-02-17
 26 <150> PRIOR APPLICATION NUMBER: 60/135,134
 27 <151> PRIOR FILING DATE: 1999-05-20
 29 <150> PRIOR APPLICATION NUMBER: 09/394,519
 30 <151> PRIOR FILING DATE: 1999-09-13
 32 <150> PRIOR APPLICATION NUMBER: 09/533,392
 33 <151> PRIOR FILING DATE: 2000-03-22
 35 <150> PRIOR APPLICATION NUMBER: 09/533,029
 36 <151> PRIOR FILING DATE: 2000-03-22
 38 <150> PRIOR APPLICATION NUMBER: 09/532,591
 39 <151> PRIOR FILING DATE: 2000-03-22
 41 <150> PRIOR APPLICATION NUMBER: 09/533,030
 42 <151> PRIOR FILING DATE: 2000-03-22
 44 <150> PRIOR APPLICATION NUMBER: 60/125,814
 45 <151> PRIOR FILING DATE: 1999-03-23
 47 <150> PRIOR APPLICATION NUMBER: 09/713,994
 48 <151> PRIOR FILING DATE: 2000-11-16
 50 <150> PRIOR APPLICATION NUMBER: 60/166,228
 51 <151> PRIOR FILING DATE: 1999-11-17
 53 <150> PRIOR APPLICATION NUMBER: 60/197,899
 54 <151> PRIOR FILING DATE: 2000-04-17
 56 <150> PRIOR APPLICATION NUMBER: 60/227,439
 57 <151> PRIOR FILING DATE: 2000-08-22
 59 <150> PRIOR APPLICATION NUMBER: 10/456,882

CP9-6)

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63 <151> PRIOR FILING DATE: 2001-03-16
65 <150> PRIOR APPLICATION NUMBER: 10/421,138
66 <151> PRIOR FILING DATE: 2003-04-23
68 <150> PRIOR APPLICATION NUMBER: 09/823,676
69 <151> PRIOR FILING DATE: 2001-03-30
71 <150> PRIOR APPLICATION NUMBER: 09/996,140
72 <151> PRIOR FILING DATE: 2001-11-26
74 <150> PRIOR APPLICATION NUMBER: 09/934,455
75 <151> PRIOR FILING DATE: 2001-08-22
77 <150> PRIOR APPLICATION NUMBER: 10/112,887
78 <151> PRIOR FILING DATE: 2002-03-18
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92 <150> PRIOR APPLICATION NUMBER: 60/310,847
93 <151> PRIOR FILING DATE: 2001-08-09
95 <150> PRIOR APPLICATION NUMBER: 60/338,692
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98 <150> PRIOR APPLICATION NUMBER: 60/336,049
99 <151> PRIOR FILING DATE: 2001-11-19
101 <150> PRIOR APPLICATION NUMBER: 10/374,780
102 <151> PRIOR FILING DATE: 2003-02-25
104 <150> PRIOR APPLICATION NUMBER: 09/837,944
105 <151> PRIOR FILING DATE: 2001-04-18
107 <150> PRIOR APPLICATION NUMBER: 10/171,468
108 <151> PRIOR FILING DATE: 2002-06-14
110 <150> PRIOR APPLICATION NUMBER: 10/666,642
111 <151> PRIOR FILING DATE: 2003-09-18
113 <150> PRIOR APPLICATION NUMBER: 60/434,166
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119 <150> PRIOR APPLICATION NUMBER: 60/465,809
120 <151> PRIOR FILING DATE: 2003-04-24
122 <160> NUMBER OF SEQ ID NOS: 430
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126 <210> SEQ ID NO: 1
127 <211> LENGTH: 785
128 <212> TYPE: DNA
129 <213> ORGANISM: Arabidopsis thaliana
131 <220> FEATURE:
132 <223> OTHER INFORMATION: G47 reference sequence; clade identifier

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139 gattagagtt ccgggaactc gtgaccgtct ctggttagggt tcattctcaa cagcagaagg      180
141 tgccgcgcta gcacacgacg ttgctttctt ctgtttacac caacctgatt ctttagaatc      240
143 tctcaatttc cctcatttgc ttaatccttc actcgtttcc agaacttctc cgagatctat      300
145 ccagcaagct gcttctaacg ccggcatggc cattgacgcc ggaatcgtcc acagtaccag      360
147 cgtgaactct ggatgcggag atacgacgac gtattacgag aatggagctg atcaagtgga      420
149 gccgttgaat atttcagtgt atgattatct gggcggccac gatcacgttt gatttatctc      480
151 gacggatcatg atcacgtttg atcttctttt gagtaagatt ttgtaccata atcaaaacag      540
153 gtgtgggtgct aaaatcttac tcaaaacaag attaggtacc acagagaaac aatcaaattg      600
155 ttgtgaatat acattataag gttttgatta atgtttgttt cactgattta gtgaagtttg      660
157 gtccattgta taaaaatcta ttcaagaaac ctacgcgcgag atcatgtttc gtgattgaag      720
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161 aaaaaa      785
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165 <211> LENGTH: 144
166 <212> TYPE: PRT
167 <213> ORGANISM: Arabidopsis thaliana
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170 <223> OTHER INFORMATION: G47 polypeptide reference sequence; clade identifier
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178 Ile Arg Arg Arg Lys Trp Gly Lys Trp Val Ser Glu Ile Arg Val Pro
179      20      25      30
182 Gly Thr Arg Asp Arg Leu Trp Leu Gly Ser Phe Ser Thr Ala Glu Gly
183      35      40      45
186 Ala Ala Val Ala His Asp Val Ala Phe Phe Cys Leu His Gln Pro Asp
187      50      55      60
190 Ser Leu Glu Ser Leu Asn Phe Pro His Leu Leu Asn Pro Ser Leu Val
191 65      70      75      80
194 Ser Arg Thr Ser Pro Arg Ser Ile Gln Gln Ala Ala Ser Asn Ala Gly
195      85      90      95
198 Met Ala Ile Asp Ala Gly Ile Val His Ser Thr Ser Val Asn Ser Gly
199      100     105     110
202 Cys Gly Asp Thr Thr Thr Tyr Tyr Glu Asn Gly Ala Asp Gln Val Glu
203      115     120     125
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212 <212> TYPE: DNA
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216 <223> OTHER INFORMATION: G922 reference sequence; clade identifier
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223 tgtctcaaag atctcaaacc agaggagcgt ggtctctact taatccacct cttgctaact 180
225 tgtgccaaacc acgtggcttc aggtagcctc caaaacgcta acgcagcgct cgagcagctc 240
227 tctcacctcg cttctcctga cggcgacacg atgcagcgaa tcgctgctta cttcacccgaa 300
229 gcgcttgcta acagaatcct taagtcctgg cctgggtcttt acaaggctct taacgcaact 360
231 cagacaagaa ctaacaatgt ctctgaggag attcatgtta gaagactctt ctttgagatg 420
233 ttcccgatac tcaaagtctc ttacttgctc actaatcgag ctatactcga ggctatggaa 480
235 ggagagaaga tgggttcattg gattgatctc gatgcttctg agccagctca atggcttgct 540
237 ttgcttcaag cttttaactc taggcctgaa ggtccacctc atttgagaat cactgggtgtt 600
239 catcaccaga aggaagtgtc tgaacaaatg gctcatagac tcattgagga agcagagaaa 660
241 ctcgatatcc cgtttcagtt taatcccgtt gtgagtaggt tagactgttt aaatgtagaa 720
243 cagttgcggg ttaaaacagg agaggcctta gccgttagct cggttcttca attgcatacc 780
245 ttcttggcct ctgatgatga tctcatgaga aagaactgcg ctttacgggt tcagaacaac 840
247 cctagtggag ttgacttgca gagagttcta atgatgagcc atggctctgc agctgaggca 900
249 cgtgagaatg atatgagtaa caacaatggg tatagcccta gcggtgactc ggctcatct 960
251 ttgcctttac caagttcagg aaggactgat agcttctccta atgctatttg gggtttgtct 1020
253 ccaaaggtca tgggtggtcac tgagcaagac tcagaccaca acggctccac actaatggag 1080
255 aggcatttag aatcacttta cacctacgca gcattgtttg attgcttggg aacaaaagtt 1140
257 ccaagaacgt ctcaagatag gatcaaagtg gagaagatgc tcttcgggga ggagatcaag 1200
259 aacatcatat cctgcgaggg atttgagaga agagaaagac acgagaagct tgagaaatgg 1260
261 agccagagga tcgatttggc tgggtttggg aatgttctc ttagctatta tgcgatgttg 1320
263 caggctagga gattgcttca agggtgcggt tttgatgggt atagaatcaa ggaagagagc 1380
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271 <211> LENGTH: 482
272 <212> TYPE: PRT
273 <213> ORGANISM: Arabidopsis thaliana
275 <220> FEATURE:
276 <223> OTHER INFORMATION: G922 polypeptide reference sequence; clade identifier
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281 1 5 10 15
284 Ser Pro Leu Gln Val Phe Ser Thr Met Ser Leu Asn Arg Pro Thr Leu
285 20 25 30
288 Leu Ala Ser Ser Ser Pro Phe His Cys Leu Lys Asp Leu Lys Pro Glu
289 35 40 45
292 Glu Arg Gly Leu Tyr Leu Ile His Leu Leu Leu Thr Cys Ala Asn His
293 50 55 60
296 Val Ala Ser Gly Ser Leu Gln Asn Ala Asn Ala Ala Leu Glu Gln Leu
297 65 70 75 80
300 Ser His Leu Ala Ser Pro Asp Gly Asp Thr Met Gln Arg Ile Ala Ala
301 85 90 95
304 Tyr Phe Thr Glu Ala Leu Ala Asn Arg Ile Leu Lys Ser Trp Pro Gly
305 100 105 110
308 Leu Tyr Lys Ala Leu Asn Ala Thr Gln Thr Arg Thr Asn Asn Val Ser
309 115 120 125
312 Glu Glu Ile His Val Arg Arg Leu Phe Phe Glu Met Phe Pro Ile Leu
313 130 135 140
316 Lys Val Ser Tyr Leu Leu Thr Asn Arg Ala Ile Leu Glu Ala Met Glu

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317 145          150          155          160
320 Gly Glu Lys Met Val His Val Ile Asp Leu Asp Ala Ser Glu Pro Ala
321          165          170          175
324 Gln Trp Leu Ala Leu Leu Gln Ala Phe Asn Ser Arg Pro Glu Gly Pro
325          180          185          190
328 Pro His Leu Arg Ile Thr Gly Val His His Gln Lys Glu Val Leu Glu
329          195          200          205
332 Gln Met Ala His Arg Leu Ile Glu Glu Ala Glu Lys Leu Asp Ile Pro
333          210          215          220
336 Phe Gln Phe Asn Pro Val Val Ser Arg Leu Asp Cys Leu Asn Val Glu
337 225          230          235          240
340 Gln Leu Arg Val Lys Thr Gly Glu Ala Leu Ala Val Ser Ser Val Leu
341          245          250          255
344 Gln Leu His Thr Phe Leu Ala Ser Asp Asp Leu Met Arg Lys Asn
345          260          265          270
348 Cys Ala Leu Arg Phe Gln Asn Asn Pro Ser Gly Val Asp Leu Gln Arg
349          275          280          285
352 Val Leu Met Met Ser His Gly Ser Ala Ala Glu Ala Arg Glu Asn Asp
353          290          295          300
356 Met Ser Asn Asn Asn Gly Tyr Ser Pro Ser Gly Asp Ser Ala Ser Ser
357 305          310          315          320
360 Leu Pro Leu Pro Ser Ser Gly Arg Thr Asp Ser Phe Leu Asn Ala Ile
361          325          330          335
364 Trp Gly Leu Ser Pro Lys Val Met Val Val Thr Glu Gln Asp Ser Asp
365          340          345          350
368 His Asn Gly Ser Thr Leu Met Glu Arg Leu Leu Glu Ser Leu Tyr Thr
369          355          360          365
372 Tyr Ala Ala Leu Phe Asp Cys Leu Glu Thr Lys Val Pro Arg Thr Ser
373          370          375          380
376 Gln Asp Arg Ile Lys Val Glu Lys Met Leu Phe Gly Glu Glu Ile Lys
377 385          390          395          400
380 Asn Ile Ile Ser Cys Glu Gly Phe Glu Arg Arg Glu Arg His Glu Lys
381          405          410          415
384 Leu Glu Lys Trp Ser Gln Arg Ile Asp Leu Ala Gly Phe Gly Asn Val
385          420          425          430
388 Pro Leu Ser Tyr Tyr Ala Met Leu Gln Ala Arg Arg Leu Leu Gln Gly
389          435          440          445
392 Cys Gly Phe Asp Gly Tyr Arg Ile Lys Glu Glu Ser Gly Cys Ala Val
393          450          455          460
396 Ile Cys Trp Gln Asp Arg Pro Leu Tyr Ser Val Ser Ala Trp Arg Cys
397 465          470          475          480

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400 Arg Lys

404 <210> SEQ ID NO: 5

405 <211> LENGTH: 585

406 <212> TYPE: DNA

407 <213> ORGANISM: Arabidopsis thaliana

409 <220> FEATURE:

410 <223> OTHER INFORMATION: G1274 reference sequence; clade identifier

412 <400> SEQUENCE: 5

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/714,887

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:159; N Pos. 605,610,615,625,647,652
Seq#:187; N Pos. 234
Seq#:188; Xaa Pos. 78
Seq#:209; N Pos. 9,802
Seq#:223; N Pos. 2192
Seq#:425; N Pos. 851
Seq#:429; N Pos. 6,15,18
Seq#:430; N Pos. 3,6,12,18

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:69; Line(s) 4246
Seq#:223; Line(s) 12940
Seq#:242; Line(s) 14166
Seq#:245; Line(s) 14370
Seq#:247; Line(s) 14489
Seq#:249; Line(s) 14613
Seq#:251; Line(s) 14695

VERIFICATION SUMMARY

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L:20 M:270 C: Current Application Number differs, Replaced Current Application No
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:9044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:159 after pos.:600
L:10516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:187 after pos.:180
L:10567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:64
L:11747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0
M:341 Repeated in SeqNo=209
L:13015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:223 after pos.:2160
L:24158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:425 after pos.:840
L:24351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:429 after pos.:0
L:24387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:430 after pos.:0